



STIC Search Report

EIC 2800

STIC Database Tracking Number: 143443

TO: Mariceli Santiago
Location: JEF- 3D34
Art Unit : 2879
Wednesday, January 26, 2005

Case Serial Number: 09/384326

From: Darcy Bates
Location: EIC 2800
JEF- 4B68
Phone: 571-272-2540

darcy.bates@uspto.gov

Search Notes

Re: 09/384,326 US 5,661,362

Attached are search results.

No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.

If more searching or explanation is needed, please let me know.

Thanks,
Darcy Bates

Day : Wednesday
Date: 1/26/2005
Time: 15:32:17

**PALM INTRANET**

Continuity Information for 09/384326

Parent Data

09384326

is a reissue of 08657385

Which is a continuation of 08191065

Which is a continuation of 07705720

Which is a continuation in part of 07218203

Child Data

No Child Data

Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Address	Fees	Post Info	Pre Grant Pub
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Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

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PALM INTRANET

Day : Wednesday

Date: 1/26/2005

Time: 15:33:00

Application Number Information

Application Number: **08/657385** [Assignments](#)Filing Date: **06/03/1996**Effective Date: **06/03/1996**Application Received: **06/03/1996**Patent Number: **5661362**Issue Date: **08/26/1997**Date of Abandonment: **00/00/0000**Attorney Docket Number: **35.C5745CIP/**Status: **150 /PATENTED CASE**Confirmation Number: **1938**Examiner Number: **72132 / DAY, MICHAEL**Group Art Unit: **2211**Class/Subclass: **313/309.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO****L&R Code:** Secrecy Code:1Third Level Review: **NO**Secrecy Order: **NO**Status Date: **08/14/1997**Oral Hearing: **NO**Title of Invention: **FLAT PANEL DISPLAY INCLUDING ELECTRON EMITTING DEVICE**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08657385	28U1	01/25/2005	2879	No Charge to Name	MARQUIS,LISSI	JEF/08/D 61

Appln Info

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Day : Wednesday
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Time: 15:33:06



PALM INTRANET

Continuity Information for 08/657385

Parent Data

08657385

is a continuation of 08396066

Which is a continuation of 08191065

Which is a continuation of 07705720

Which is a continuation in part of 07218203

Child Data

09384326 is a reissue of 08657385

Appin Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Address	Fees	Post Info	Pre Grant Pub
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Search Another: Application# or Patent#
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Day : Wednesday

Date: 1/26/2005

Time: 15:33:12

 **PALM INTRANET****Application Number Information**Application Number: 08/396066 [Assignments](#)

Filing Date: 02/28/1995

Effective Date: 02/28/1995

Application Received: 02/28/1995

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 06/03/1996

Attorney Docket Number: 35.C5745CIP/

Status: 166 /ABANDONED -- FILE-WRAPPER-CONTINUATION PARENT APPLICATION

Confirmation Number: 4480

Examiner Number: 72132 / [DAY, MICHAEL](#)

Group Art Unit: 2211

Class/Subclass: 313/309.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

[L&R Code](#): Secrecy Code:1

Third Level Review: NO

Oral Hearing: NO

Secrecy Order: NO

Status Date: 06/04/1996

Title of Invention: FLAT PANEL DISPLAY INCLUDING ELECTRON EMITTING DEVICE

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08396066	2200	12/13/1996	92F0	No Charge to Name	LOE CONV DR1995C	

Appln Info

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Day : Wednesday

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PALM INTRANET

Continuity Information for 08/396066

Parent Data

08396066is a continuation of 08191065Which is a continuation of 07705720Which is a continuation in part of 07218203

Child Data

08474324 is a division of 0839606608479000 is a division of 0839606608487559 is a division of 0839606608657385 is a continuation of 0819106509148470 is a division of 0848755909189624 is a division of 0914847009570375 is a reissue of 0847432409587249 is a reissue of 08479000

Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Address	Fees	Post Info	Pre Grant Pub
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Search Another: Application# or Patent#
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PALM INTRANET

Day : Wednesday

Date: 1/26/2005

Time: 15:33:23

Application Number Information

Application Number: 08/191065 Assignments

Filing Date: 02/03/1994

Effective Date: 02/03/1994

Application Received: 02/03/1994

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 02/28/1995

Attorney Docket Number: 35.C5745CIPC

Status: 166 /ABANDONED -- FILE-WRAPPER-CONTINUATION PARENT APPLICATION

Confirmation Number: 9179

Title of Invention: ELECTRON-EMMITTING DEVICE

Examiner Number: 65691 / HORABIK, MICHAEL

Group Art Unit: 2211

Class/Subclass: 313/309.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:0

Third Level Review: NO

Oral Hearing: NO

Secrecy Order: NO

Status Date: 04/03/1995

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08191065	2200	04/10/1995	92F0	No Charge to Name	LOE CONV DR1995C	

Appln Info

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Day : Wednesday

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PALM INTRANET

Continuity Information for 08/191065

Parent Data

08191065is a continuation of 07705720Which is a continuation in part of 07218203

Child Data

08396066 is a continuation of 0819106508474324 is a division of 0839606608479000 is a division of 0839606608487559 is a division of 0839606608657385 is a continuation of 0819106509148470 is a division of 0848755909189624 is a division of 0914847009384326 is a reissue of 0865738509570375 is a reissue of 0847432409587249 is a reissue of 08479000

Appin Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Address	Fees	Post Info	Pre Grant Pub
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Search Another: Application# or Patent#
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**PALM INTRANET**

Day : Wednesday

Date: 1/26/2005

Time: 15:34:55

Application Number InformationApplication Number: **07/705720** [Assignments](#)Filing Date: **05/24/1991**Effective Date: **05/24/1991**Application Received: **05/24/1991**

Patent Number:

Issue Date: **00/00/0000**Date of Abandonment: **02/04/1994**Attorney Docket Number: **35.C5745-CIP**Status: **168 /EXPRESSLY ABANDONED -- DURING EXAMINATION**Confirmation Number: **1540**Title of Invention: **ELECTRON-EMITTING DEVICE**Examiner Number: **65691 / HORABIK, MICHAEL**Group Art Unit: **2604**Class/Subclass: **313/309.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**L&R Code: Secrecy Code:1Third Level Review: **NO**Oral Hearing: **NO**Secrecy Order: **NO**Status Date: **04/04/1994**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
07705720	2600	04/07/1994	No Charge to Location	No Charge to Name	LOE CONV DR1995C	

Appln Info

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Day : Wednesday

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PALM INTRANET

Continuity Information for 07/705720

Parent Data

07705720is a continuation in part of 07218203

Child Data

08191065 is a continuation of 0770572008396066 is a continuation of 0819106508474324 is a division of 0839606608479000 is a division of 0839606608487559 is a division of 0839606608657385 is a continuation of 0819106509148470 is a division of 0848755909189624 is a division of 0914847009384326 is a reissue of 0865738509570375 is a reissue of 0847432409587249 is a reissue of 08479000[AppInInfo](#)[Contents](#)[PetitionInfo](#)[Atty/AgentInfo](#)[Continuity Data](#)[ForeignData](#)[Inventors](#)[Address](#)[Fees](#)[PostInfo](#)[Pre Grant Pub](#)Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

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**PALM INTRANET**

Day : Wednesday
Date: 1/26/2005
Time: 15:35:16

Application Number InformationApplication Number: **07/218203** [Assignments](#)Filing Date: **07/13/1988**Effective Date: **07/13/1988**Application Received: **07/13/1988**Patent Number: **5066883**Issue Date: **11/19/1991**Date of Abandonment: **00/00/0000**Attorney Docket Number: **35.C5745**Status: **150 /PATENTED CASE**Confirmation Number: **2518**Examiner Number: **65691 / HORABIK, MICHAEL**Group Art Unit: **2604**Class/Subclass: **313/309.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**

L&R Code: Secrecy Code:1

Third Level Review: **NO**Secrecy Order: **NO**Status Date: **11/08/1991**Oral Hearing: **NO**Title of Invention: **ELECTRON-EMITTING DEVICE WITH ELECTRON-EMITTING REGION INSULATED FROM ELECTRODES**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
07218203	28U3	05/01/2004	No Charge to Location	DEES, JOSE	INVENTORY,THIRTY6	JEF/08/D 59

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PALM INTRANET

Continuity Information for 07/218203

Parent Data

No Parent Data

Child Data

07694014 is a continuation of 0721820307705720 is a continuation in part of 0721820308058801 is a continuation of 0769401408191065 is a continuation of 0770572008366430 is a continuation of 0805880108396066 is a continuation of 0819106508474324 is a division of 0839606608479000 is a division of 0839606608487559 is a division of 0839606608657385 is a continuation of 0819106509148470 is a division of 0848755909384326 is a reissue of 0865738509570375 is a reissue of 0847432409587249 is a reissue of 08479000

AppIn Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Address	Fees	Post Info	Pre Grant Pub
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Litigation involving patent 5,661,362

Click on the docket number to view the docket.
Click on the above patent number to view the patent.

 Docket 	 Case Heading 	 Date Filed 	 Date Retrvd 
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There are no cases involving this patent number.

Litigation involving patent 5,066,883

Click on the docket number to view the docket.
Click on the above patent number to view the patent.

 Docket 	 Case Heading 	 Date Filed 	 Date Retrvd 
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There are no cases involving this patent number.

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) 

Terms: **patno=5661362** ([Edit Search](#))

657385 (08) 5661362 August 26, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5661362

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[Link to Claims Section](#)

August 26, 1997

Flat panel display including electron emitting device

REISSUE: Reissue Application filed Aug. 26, 1999 (O.G. Feb. 1, 2000) Ex. Gp.: 2875; Re. S.N. 09/384,326, (O.G. February 1, 2000)

INVENTOR: Yoshioka, Seishiro, Hiratsuka, JP; Nomura, Ichiro, Yamato, JP; Suzuki, Hidetoshi, Atsugi, JP; Takeda, Toshihiko, Tokyo, JP; Kaneko, Tetsuya, Yokohama, JP; Banno, Yoshikazu, Atsugi, JP; Yokono, Kojiro, Yokohama, JP

CERT-CORRECTION: March 31, 1998 - a Certificate of Correction was issued for this patent

APPL-NO: 657385 (08)

FILED-DATE: June 3, 1996

GRANTED-DATE: August 26, 1997

PRIORITY: July 15, 1987 - 62174837, Japan (JP); October 2, 1987 - 62250448, Japan (JP); October 9, 1987 - 62255063, Japan (JP); October 9, 1987 - 62255068, Japan (JP); April 27, 1988 - 63102485, Japan (JP); April 27, 1988 - 63102486, Japan (JP); April 27, 1988 - 63102487, Japan (JP); April 27, 1988 - 63102488, Japan (JP); June 21, 1988 - 63154516, Japan (JP)

ASSIGNEE-AT-ISSUE: Canon Kabushiki Kaisha, Tokyo, JP

LEGAL-REP: Fitzpatrick, Cella, Harper & Scinto

PUB-TYPE: August 26, 1997 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Addition of Ser. No. 5066883, November 19, 1991

Addition of Ser. No. 396066, February 28, 1995

Addition of Ser. No. 191065, February 3, 1994

Addition of Ser. No. 705720, May 24, 1991


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patno=5661362

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Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command : us5661362/pn

** SS 3: Results 1

Search statement 4

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image
PN - US5661362 A 19970826 [US5661362]
TI - (A) Flat panel display including electron emitting device
PA - (A) CANON KK (JP)
PAO - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
AP - US65738596 19960603 [1996US-0657385]
FD - Cont. of US396066 19950228 [1995US-0396066] (Abandoned)
Cont. of US191065 19940203 [1994US-0191065] (Abandoned)
Cont. of US705720 19910524 [1991US-0705720] (Abandoned)
C.I.P. of US218203 19880713 [1988US-0218203]
Continuation-in-part of: US5066883 - 19911119
PR - US65738596 19960603 [1996US-0657385]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
US39606695 19950228 [1995US-0396066]
US19106594 19940203 [1994US-0191065]
US70572091 19910524 [1991US-0705720]
US21820388 19880713 [1988US-0218203]
IC - (A) H01J-001/30
EC - H01J-001/316
PCL - ORIGINAL (O) : 313309000; CROSS-REFERENCE (X) : 313336000
313346000R 313351000
DT - Basic
CT - US3278789; US3663857; US3735186; US4093562; US4325084; US5066883;
EP0073031; DE1800952; DE1764994; DE2542349; DE2012101; DE2413942;
JP44-27852; JP44-27853; JP44-28009; JP44-26125; JP44-32247;
JP45-31615; JP46-20944; JP46-20949; JP46-20943; JP46-24456;
JP46-38060; JP54-1147; JP56-18336; JP56-71239; SU855782;
GB1267029; GB1335979; GB2060991
M. Hartwell et al., "Strong Electron Emission From Patterned Tin-indium Oxide Thin Films" Cambridge MA, pp. 519-521.

M. Elinson et al., "The Emission Of Hot Electrons And The Field Emissions Of Electrons From Tin Oxide", Radio Engineering and Electron Physics, No. 7, Jul. 1965, pp. 1290-1296.

STG - (A) United States patent

AB - A display device consisting of an electron-emitting device which is a laminate of an insulating layer and a pair of opposing electrodes formed on a planar substrate. A portion of the insulating layer is between the electrodes and a portion containing an electron emitting region in between one electrode and the substrate. Electrons are emitted from the electron emission region by a voltage to the electrodes, thereby stimulating a phosphorous to emitting light.

1 / 1 LGST - ©EPO

PN - US5661362 A 19970826 [US5661362]

AP - US65738596 19960603 [1996US-0657385]

ACT - 19980331 US/CC-A
CERTIFICATE OF CORRECTION

20000201 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990826

UP - 2003-22

1 / 1 CRXX - ©CLAIMS/RRX

AN - 2876923

PN - 5,661,362 A 19970826 [US5661362]

PA - Canon K K JP

PT - E (Electrical)

ACT - 19990826 REISSUE REQUESTED
Issue Date of O.G.: 20000201
Reissue Request Number: 09/384326
Examination Group responsible for Reissue process: 2875

UP - 1999-00

UACT- 2000-02-01

Search statement 4

Query/Command : fam us5661362/pn

1 Patent Groups

**** SS 4: Results 15**

Search statement 5

Query/Command : famstate nonstop

1 / 15 PLUSPAT - @QUESTEL-ORBIT
PN - DE3853744 D1 19950614 [DE3853744]
STG - (D1) Granted EP number in bulletin
OTI - (D1) Elektronenemittierende Vorrichtung.
PA - (D1) CANON KK (JP)
IN - (D1) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); SUZUKI
HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP); KANEKO TETSUYA (JP);
BANNO YOSHIKAZU (JP); YOKONO KOJIRO (JP)
IC - (D1) H01J-001/30 H01J-009/02
PN2 - DE3853744 T2 19960125 [DE3853744]
STG2- (T2) Trans. Of EP patent
OTI2- (T2) Elektronenemittierende Vorrichtung.
PA2 - (T2) CANON KK (JP)
IN2 - (T2) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); SUZUKI
HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP); KANEKO TETSUYA (JP);
BANNO YOSHIKAZU (JP); YOKONO KOJIRO (JP)
IC2 - (T2) H01J-001/30 H01J-009/02
AP - DE3853744 19880713 [1988DE-3853744]
PR - JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]

1 / 2 LEGALI - @EPO
PN - DE3853744 D1 19950614 [DE3853744] DE3853744 T2 19960125 [DE3853744]
AP - DE3853744 19880713 [1988DE-3853744]
ACTE- 19960605 DE/8364-A [+] NO OPPOSITION DURING TERM OF OPPOSITION

19990506 DE/8328-A
CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT
WESER & KOLLEGEN, 81245 MUENCHEN
UP - 2003-22

2 / 2 LEGALI - @EPO
PN - EP0299461 A2 19890118 [EP-299461] EP0299461 A3 19900110
[EP-299461] EP0299461 B1 19950510 [EP-299461]
AP - EP88111232 19880713 [1988EP-0111232]
ACTE- 19890118 EP/AK-A [+] DESIGNATED CONTRACTING STATES:
DE FR GB NL

19900110 EP/AK-A [+] DESIGNATED CONTRACTING STATES:
DE FR GB NL

19900905 EP/17P-A [+] REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 19900709

19920930 EP/17Q-A [+] FIRST EXAMINATION REPORT
EFFECTIVE DATE: 19920818

19950510 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB NL

19950614 EP/REF-A
CORRESPONDS TO:
(DE 3853744 19950614 [DE3853744])

19950811 EP/ET-A [+]
FR: TRANSLATION FILED

19960501 EP/26N-A [+]
NO OPPOSITION FILED

20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
<GB>

UP - 2003-22

2 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - EP0299461 A2 19890118 [EP-299461]
STG - (A2) Pub. Of applic. Without search report
TI - (A2) Electron-emitting device.
OTI - (A2) Elektronenemittierende Vorrichtung.
(A2) Dispositif émetteur d'électrons.
PA - (A2) CANON KK (JP)
IN - (A2) YOSHIOKA SEISHIRO; NOMURA ICHIRO; YOKONO KOJIRO; BANNO
YOSHIKAZU; KANEKO TETSUYA; SUZUKI HIDETOSHI; TAKEDA TOSHIHIKO
IC - (A2) H01J-001/30 H01J-009/02
PN2 - EP0299461 A3 19900110 [EP-299461]
STG2- (A3) Publi. Of search report
TI2 - (A3) ELECTRON-EMITTING DEVICE
PN3 - EP0299461 B1 19950510 [EP-299461]
STG3- (B1) Patent
TI3 - (B1) Electron-emitting device.
OTI3- (B1) Elektronenemittierende Vorrichtung.
(B1) Dispositif émetteur d'électrons.
PA3 - (B1) CANON KK (JP)
IN3 - (B1) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO
(JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI
HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC3 - (B1) H01J-001/30 H01J-009/02
LA - ENGLISH (ENG)
AP - EP88111232 19880713 [1988EP-0111232]
PR - JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
EC - H01J-001/316
H01J-009/02B4
DS - DE FR GB NL
DT - Basic

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PN - EP0299461 A2 19890118 [EP-299461]EP0299461 A3 19900110
[EP-299461]EP0299461 B1 19950510 [EP-299461]
AP - EP88111232 19880713 [1988EP-0111232]
ACTE- 19890118 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB NL

19900110 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB NL

19900905 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 19900709

19920930 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 19920818

19950510 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB NL

19950614 EP/REF-A
CORRESPONDS TO:
(DE 3853744 19950614 [DE3853744]).

19950811 EP/ET-A [+]
FR: TRANSLATION FILED

19960501 EP/26N-A [+]
NO OPPOSITION FILED

20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
<GB>
UP - 2003-22

3 / 15 *PLUSPAT - @QUESTEL-ORBIT - image*
PN - JP1200532 A 19890811 [JP01200532]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMISSION ELEMENT AND MANUFACTURE THEREOF
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) KANEKO TETSUYA; NOMURA ICHIRO; TAKEDA TOSHIHIKO; SAKANO
YOSHIKAZU; SUZUKI HIDETOSHI; YOKONO KOJIRO
IC - (A) H01J-001/30
PN2 - JP7114104 B 19951206 [JP95114104]
STG2- (B) Publd. Examined patent applic.
PN3 - JP2088241 C 19960902 [JP2088241]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30 H01J-009/02
AP - JP10248588 19880427 [1988JP-0102485]
PR - JP10248588 19880427 [1988JP-0102485]
JP25506387 19871009 [1987JP-0255063]
ICO - T01J-201/30D

4 / 15 *PLUSPAT - @QUESTEL-ORBIT - image*
PN - JP1105445 A 19890421 [JP01105445]

STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT AND ITS MANUFACTURE
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) YOSHIOKA SEISHIRO; NOMURA ICHIRO; YOKONO KOJIRO; KANEKO
TETSUYA; SAKANO YOSHIKAZU; SUZUKI HIDETOSHI; TAKEDA TOSHIHIKO
IC - (A) H01J-029/48 H01J-037/06
PN2 - JP7114105 B 19951206 [JP95114105]
STG2- (B) Publd. Examined patent applic.
IC2 - (B) H01J-001/30 H01J-009/02
PN3 - JP2088242 C 19960902 [JP2088242]
STG3- (C) Granted patent from 1000001 onwards
AP - JP10248688 19880427 [1988JP-0102486]
PR - JP10248688 19880427 [1988JP-0102486]
JP17483787 19870715 [1987JP-0174837]
EC - H01J-001/316
H01J-009/02B4
DT - Corresponding document

5 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP1276528 A 19891107 [JP01276528]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) KANEKO TETSUYA; NOMURA ICHIRO; SAKANO YOSHIKAZU; TAKEDA
TOSHIHIKO
IC - (A) H01J-001/30
PN2 - JP6101297 B 19941212 [JP94101297]
STG2- (B) Publd. Examined patent applic.
PN3 - JP1971670 C 19950927 [JP1971670]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30
AP - JP10248788 19880427 [1988JP-0102487]
PR - JP10248788 19880427 [1988JP-0102487]
ICO - T01J-201/30D

6 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP1276529 A 19891107 [JP01276529]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) KANEKO TETSUYA; NOMURA ICHIRO; SAKANO YOSHIKAZU; TAKEDA
TOSHIHIKO
IC - (A) H01J-001/30
PN2 - JP7114106 B 19951206 [JP95114106]
STG2- (B) Publd. Examined patent applic.
PN3 - JP2088243 C 19960902 [JP2088243]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30 H01J-009/02
AP - JP10248888 19880427 [1988JP-0102488]
PR - JP10248888 19880427 [1988JP-0102488]
ICO - T01J-201/30D

7 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP1320725 A 19891226 [JP01320725]

STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMISSION ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) KANEKO TETSUYA; TAKEDA TOSHIHIKO; SAKANO YOSHIKAZU; NOMURA
ICHIRO; YOSHIOKA SEISHIRO
IC - (A) H01J-001/30
PN2 - JP7123022 B 19951225 [JP95123022]
STG2- (B) Publd. Examined patent applic.
PN3 - JP2083738 C 19960823 [JP2083738]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30
AP - JP15451688 19880621 [1988JP-0154516]
PR - JP15451688 19880621 [1988JP-0154516]

8 / 15 PLUSPAT - @QUESTEL-ORBIT - image
PN - JP1093024 A 19890412 [JP01093024]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) YOKONO KOJIRO; SUZUKI HIDETOSHI; NOMURA ICHIRO; KANEKO
TETSUYA; TAKEDA TOSHIHIKO; SAKANO YOSHIKAZU
IC - (A) H01J-001/30
PN2 - JP6087391 B 19941102 [JP94087391]
STG2- (B) Publd. Examined patent applic.
PN3 - JP1952262 C 19950728 [JP1952262]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30
AP - JP25044887 19871002 [1987JP-0250448]
PR - JP25044887 19871002 [1987JP-0250448]
ICO - T01J-201/30D

9 / 15 PLUSPAT - @QUESTEL-ORBIT - image
PN - JP1097354 A 19890414 [JP01097354]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMISSION ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) NOMURA ICHIRO; YOKONO KOJIRO; KANEKO TETSUYA; SAKANO
YOSHIKAZU; SUZUKI HIDETOSHI; TAKEDA TOSHIHIKO
IC - (A) H01J-029/48 H01J-037/06
PN2 - JP7123023 B 19951225 [JP95123023]
STG2- (B) Publd. Examined patent applic.
IC2 - (B) H01J-001/30
PN3 - JP2083726 C 19960823 [JP2083726]
STG3- (C) Granted patent from 1000001 onwards
AP - JP25506887 19871009 [1987JP-0255068]
PR - JP25506887 19871009 [1987JP-0255068]
EC - H01J-001/316
H01J-009/02B4
DT - Corresponding document

10 / 15 PLUSPAT - @QUESTEL-ORBIT
PN - US5066883 A 19911119 [US5066883]
STG - (A) United States patent
TI - (A) ELECTRON-EMITTING DEVICE WITH ELECTRON-EMITTING REGION

INSULATED FROM ELECTRODES
PA - (A) CANON KK (JP)
PAO - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO
(JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI
HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H01J-001/02
AP - US21820388 19880713 [1988US-0218203]
PR - JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
EC - H01J-001/316
H01J-009/02B4
PCL - ORIGINAL (O) : 313309000; CROSS-REFERENCE (X) : 313310000
313336000 313346000R 313351000 313355000
DT - Corresponding document

1 / 1 LEGALI - ©EPO
PN - US5066883 A 19911119 [US5066883]
AP - US21820388 19880713 [1988US-0218203]
ACTE- 19880713 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: CANON KABUSHIKI KAISHA, 30-2, 3-CHOME, SHIMOMARUKO;
EFFECTIVE DATE: 19880708

19880713 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: YOSHIOKA, SEISHIRO; EFFECTIVE DATE: 19880708

19880713 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: NOMURA, ICHIRO; EFFECTIVE DATE: 19880708

19880713 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SUZUKI, HIDETOSHI; EFFECTIVE DATE: 19880708

19880713 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: TAKEDA, TOSHIHIKO; EFFECTIVE DATE: 19880708

19880713 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: KA; EFFECTIVE DATE: 19880708

19940426 US/CC-A
CERTIFICATE OF CORRECTION
UP - 2003-22

11 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5532544 A 19960702 [US5532544]
STG - (A) United States patent
TI - (A) Electron-emitting device with electron-emitting region

insulated from electrodes
PA - (A) GANON KABUSHIKI KAISHA (JP)
PAO - Ganon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H04N-003/14
AP - US36643094 19941230 [1994US-0366430]
PR - US36643094 19941230 [1994US-0366430]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
US5880193 19930510 [1993US-0058801]
US69401491 19910430 [1991US-0694014]
US21820388 19880713 [1988US-0218203]
EC - H01J-001/316
H01J-009/02B4
PCL - ORIGINAL (O) : 313310000; CROSS-REFERENCE (X) : 313309000
313351000 315169300
DT - Corresponding document

12 / 15 PLUSPAT - @QUESTEL-ORBIT - image
PN - US5749763 A 19980512 [US5749763]
STG - (A) United States patent
TI - (A) Display device with electron-emitting device with electron-emitting region insulated from electrodes
PA - (A) CANON KK (JP)
PAO - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H01J-001/30 H01J-009/02
AP - US47432495 19950607 [1995US-0474324]
PR - US47432495 19950607 [1995US-0474324]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
US39606695 19950228 [1995US-0396066]
US19106594 19940203 [1994US-0191065]
US70572091 19910524 [1991US-0705720]
US21820388 19880713 [1988US-0218203]
EC - H01J-001/316
PCL - ORIGINAL (O) : 445051000; CROSS-REFERENCE (X) : 427077000
DT - Basic

13 / 15 PLUSPAT - @QUESTEL-ORBIT - image
PN - US5759080 A 19980602 [US5759080]

STG - (A) United States patent
TI - (A) Display device with electron-emitting device with
electron-emitting region insulated from electrodes
PA - (A) CANON KK (JP)
PAO - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO
(JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI
HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H01J-001/30 H01J-009/02
AP - US47900095 19950607 [1995US-0479000]
PR - US47900095 19950607 [1995US-0479000]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
US39606695 19950228 [1995US-0396066]
US19106594 19940203 [1994US-0191065]
US70572091 19910524 [1991US-0705720]
US21820388 19880713 [1988US-0218203]
EC - H01J-009/02B4
PCL - ORIGINAL (O) : 445051000; CROSS-REFERENCE (X) : 445024000
DT - Basic

1 / 1 LEGALI - @EPO
PN - US5759080 A 19980602 [US5759080]
AP - US47900095 19950607 [1995US-0479000]
ACTE- 20000208 US/CC-A
CERTIFICATE OF CORRECTION

20001003 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000602
UP - 2003-22

14 / 15 PLUSPAT - @QUESTEL-ORBIT - image
PN - US5872541 A 19990216 [US5872541]
STG - (A) United States patent
TI - (A) Method for displaying images with electron emitting device
PA - (A) CANON KK (JP)
PAO - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); SUZUKI HIDETOSHI
(JP); TAKEDA TOSHIHIKO (JP); KANEKO TETSUYA (JP); BANNO
YOSHIKAZU (JP); YOKONO KOJIRO (JP)
IC - (A) G09G-003/22
AP - US48755995 19950607 [1995US-0487559]
PR - JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
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JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]

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US21820388 19880713 [1988US-0218203]
US39606695 19950228 [1995US-0396066]
US48755995 19950607 [1995US-0487559]
US70572091 19910524 [1991US-0705720]
ICO - T01J-231/123
PCL - ORIGINAL (O) : 345074100; CROSS-REFERENCE (X) : 345076000
DT - Basic

1 / 1 LEGALI - ©EPO
PN - US5872541 A 19990216 [US5872541]
AP - US48755995 19950607 [1995US-0487559]
ACTE- 20001010 US/CC-A
CERTIFICATE OF CORRECTION
UP - 2003-22

15 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5661362 A 19970826 [US5661362]
STG - (A) United States patent
TI - (A) Flat panel display including electron emitting device
PA - (A) CANON KK (JP)
PAO - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO
(JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI
HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H01J-001/30
AP - US65738596 19960603 [1996US-0657385]
PR - US65738596 19960603 [1996US-0657385]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
US39606695 19950228 [1995US-0396066]
US19106594 19940203 [1994US-0191065]
US70572091 19910524 [1991US-0705720]
US21820388 19880713 [1988US-0218203]
EC - H01J-001/316
PCL - ORIGINAL (O) : 313309000; CROSS-REFERENCE (X) : 313336000
313346000R 313351000
DT - Basic

1 / 1 LEGALI - ©EPO
PN - US5661362 A 19970826 [US5661362]
AP - US65738596 19960603 [1996US-0657385]
ACTE- 19980331 US/CC-A
CERTIFICATE OF CORRECTION
20000201 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990826
UP - 2003-22

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Syntax Definition

and	and
or	or
w/N	within N words
not w/N	not within N words
pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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Enter Search Terms
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5661362 or 5,661,362

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Search Connectors

Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)

Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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